

PREPARATION OF POLYESTER

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Abstract of JP 59093723 (A)

PURPOSE:To prepare a polyester suitable for high-speed spinning, by reacting bifunctional carboxylic acids composed mainly of terephthalic acid with glycol, and carrying out the condensation reaction of the reaction product in the presence of a specific compound. CONSTITUTION:(A) Bifunctional carboxylic acid (or its ester-forming derivative) composed mainly of terephthalic acid is made to react with (B) one or more glycols to obtain the glycol ester of bifunctional carboxylic acid and/or its oligomer. The reaction product is subjected to the polycondensation reaction. At an arbitrary stage before the completion of the condensation reaction, two or more compounds capable of forming a pH-buffering solution at 18 deg.C when dissolved in water (e.g. sodium dihydrogen phosphate) are added to the reaction system to obtain the objective polyester. The above compound to be added to the system is preferably a compound forming a buffering solution of ≥ 3 pH at 18 deg.C when dissolved in water.

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